



# CREAMER ENVIRONMENTAL, INC.

CONTRACTORS & CONSULTANTS

12 Old Bridge Road, Cedar Grove, NJ 07009

201-968-3300 Fax (201) 968-3301

## LETTER OF TRANSMITTAL

TO

**Environ International Corporation**

**20 Custom House Street**

**Boston, MA 02110**

<b>DATE: 3/8/16</b>	<b>JOB NO.: 16-0463</b>
<b>ATTENTION: Nicholas Steenhaut</b>	
<b>RE: Metal Bank NPL Site</b>	

**WE ARE SENDING YOU**

☐ Shop Drawings

☐ Copy of letter



Attached



Prints



Change order



Under separate cover via \_\_\_\_\_ the following items:



Plans



Samples



Specifications



\_\_\_\_\_

COPIES	DATE	PAGES	DESCRIPTION
1	3/8/2016	2	Submittal #7.1 Waler Repair Sequence and Procedures

**THESE ARE TRANSMITTED as checked below:**

☒ For Acceptance

☐ For your use

☐ As requested

☐ Review & comment

☐ Approved as submitted

☐ Approved as noted

☐ Returned for corrections

☐ \_\_\_\_\_

☐ Resubmit \_\_\_\_ copies for approval

☐ Submit \_\_\_\_ copies for distribution

☐ Return \_\_\_\_ corrected print

**REMARKS**

**COPY TO:**

**SIGNED:**

*Meghan Murphy*

**Meghan Murphy**  
**Project Coordinator**



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REMEDIATION CONTRACTORS

12 OLD BRIDGE ROAD - CEDAR GROVE, NEW JERSEY 07009

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## Metal Bank NPL Site Philadelphia, PA Waler Repair Sequence and Procedures

Creamer Environmental, Inc. (CEI) will procure the coated steel materials following the approval of material sources and field verification of existing materials. CEI will access the waler repair from the 5' wide rip rap platform installed within Zone 2. The waler repair requires the removal of the existing double channel waler to the limits shown on the plans and the installation of a new pair of channels. The new channels will be welded into place as shown on the details, using full penetration welds on the ends and at the corner to connect the double channel as a continuous waler. These walers will be held in place with the existing plates on the tie-rods as well as the new HP support brackets to be installed as per plan.

The support brackets are installed to help hold the added weight of the channel system at the corner. Four segments of HP8 waler will be installed in front of the double channel waler where it has been repaired as well as with a segment north and south of the repair section. The new HP8 waler will be interrupted at each of the tie-rod locations, T-23 through T-25, allowing 1' of clearance on either side of the tie-rod itself as per the attached figure. In order to allow for the waler to drain, 1" diameter holes will be installed 10' on center through the web of the waler.

The walers and beams to be delivered to the site will be coated with a minimum of 16 mil epoxy to maintain the corrosion protection. All locations where welding is to occur will be cleaned such that a proper weld can be performed. The welding will damage the coating in the area of the weld, and the exposed surfaces will need to be recoated. The exposed areas where the coating has been removed or damaged will be cleaned and coated using field touch up kits that are compatible with the coating on the existing sheeting.

## WALER REPAIR

